



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hubert Köster, Ph.D. et al.      Art Unit : 1639  
Serial No. : 10/760,085      Examiner : Jon D. Epperson  
Filed : January 16, 2004      Cust. No. : 20985  
Conf. No. : 8019  
Title : CAPTURE COMPOUNDS, COLLECTIONS THEREOF AND METHODS  
FOR ANALYZING THE PROTEOME AND COMPLEX COMPOSITIONS

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Because this Supplemental Information Disclosure Statement is filed before the receipt of a First Office Action on the Merits for the above-captioned application, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (12 pages) and copies of the cited non U.S. Patent documents are provided herewith.

The documents cited on the Forms PTO-1449 are in the English language except for the following references. Items CY, DB and DE (European Patent Nos. EP0124561, EP0149634 and EP0285675, respectively) which are in German, are supplied with English language Derwent abstracts (items FM, FN and FO, respectively). Item DV (International PCT Application No. WO85/00621) which is in German, is supplied with an English language Derwent abstract (item FN). Item DU (Japanese Patent No. JP6455181) which is in Japanese, is supplied with an English language Derwent abstract (item FO). Item CZ (European Patent No. EP0124562) which is in German, is supplied with an English language equivalent, US Patent No. 5198540 (item AO). Item DW (International PCT Application No. WO85/00816) which is in German, is supplied with an English language equivalent, US

Patent No. 4725677 (item AM). Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

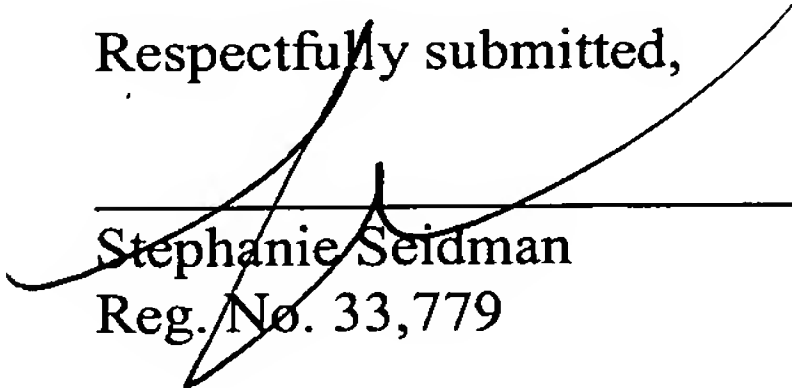
Applicant also makes known to the Examiner the following pending U.S Applications that have one or more common inventors and/or are commonly owned:

<u>U.S.S.N.(App. No.)</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/067,337	04/27/98	002001/2301
09/484,484	01/18/00	002002/2301B
10/211,073	07/31/02	003US2/2302BUS
10/197,954	07/16/02	004001/2305
10/388,027	03/11/03	004003/2305C
09/601,997	12/15/00	007US1/2307US
10/014,731	12/11/01	008001/2308

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and they be made of record in the file history of the above-captioned application.

Respectfully submitted,

  
Stephanie Seidman  
Reg. No. 33,779

**Dated: September 14, 2005**  
Attorney Docket No. 17111-009001  
**Address all correspondence to:**  
Stephanie L. Seidman  
Fish & Richardson P.C.  
12390 El Camino Real  
San Diego, California 92130  
Telephone: (858) 678-5070  
Facsimile: (202) 626-7796  
email: seidman@fr.com



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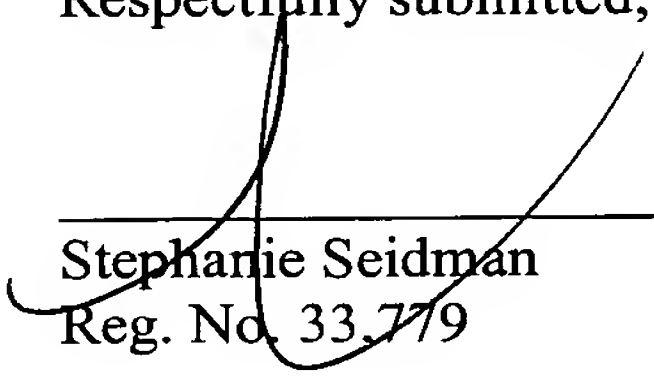
**TRANSMITTAL LETTER**

Dear Sir:

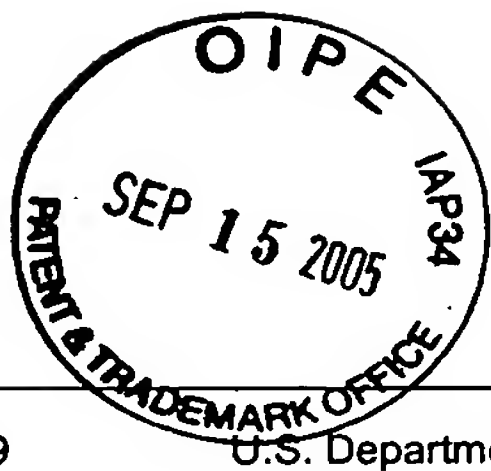
Transmitted herewith are a Supplemental Information Disclosure Statement, Forms PTO-1449 (12 pages), cited non U.S. patent references, and a return postcard for filing in connection with the above-identified application. Because this Supplemental Information Disclosure Statement is filed prior to receipt of a first office action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

  
Stephanie Seidman  
Reg. No. 33,779

**Dated: September 14, 2005**  
Attorney Docket No. 17111-009001/2309  
**Address all correspondence to:**  
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Fish & Richardson P.C.  
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San Diego, California 92130  
Telephone: (858) 678-5070  
Facsimile: (202) 626-7796  
email: seidman@fr.com

Sheet 1 of 12

Substitute Form PTO-1449 (Modified)  <b>List of Patents and Publications for Applicant's Information Disclosure Statement</b> (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17111-009001/2309	Application No. 10/760,085
	Applicant Hubert Köster, Ph.D. et al.		
	Filing Date January 16, 2004	Group Art Unit 1639	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA.	RE 34,609	05/17/94	Mueller	318	254	06/22/87
	AB.	2001/0008615	07/19/01	Little <i>et al.</i>	422	102	08/09/99
	AC.	2002/0040275	04/04/02	Cravatt <i>et al.</i>	702	19	04/16/01
	AD.	2002/0042112	04/11/02	Koster	435	174	10/26/98
	AE.	2002/0045194	04/18/02	Cravatt <i>et al.</i>	435	7.9	12/15/00
	AF.	2002/0045269	04/18/02	Shcepinov	436	173	08/13/01
	AG.	2002/0064799	05/30/02	Cravatt <i>et al.</i>	435	7.1	04/16/01
	AH.	2002/0182652	12/05/02	Cravatt <i>et al.</i>	435	7.9	05/29/02
	AI.	2003/0119021	06/26/03	Koster <i>et al.</i>	435	6	07/16/02
	AJ.	2004/0209255	10/21/04	Koster <i>et al.</i>	435	6	03/11/03
	AK.	2005/0042771	02/24/05	Koster <i>et al.</i>	436	518	01/16/04
	AL.	4,415,732	11/15/83	Caruthers <i>et al.</i>	536	27	03/27/81
	AM.	4,725,677	02/16/88	Koster <i>et al.</i>	536	27	08/10/84
	AN.	5,143,854	09/01/92	Pirrung <i>et al.</i>	436	518	03/07/90
	AO.	5,198,540	03/30/93	Koster	536	25.3	10/27/83
	AP.	5,432,018	07/11/95	Dower <i>et al.</i>	435	5	06/20/91
	AQ.	5,512,473	04/30/96	Brent <i>et al.</i>	435	240.2	01/29/93
	AR.	5,547,835	08/20/96	Koster	435	6	01/06/94
	AS.	5,547,839	08/20/96	Dower <i>et al.</i>	435	6	12/06/90
	AT.	5,580,721	12/03/96	Brent <i>et al.</i>	435	6	09/20/91
	AU.	5,580,736	12/03/96	Brent <i>et al.</i>	435	6	01/09/95
	AV.	5,605,798	02/25/97	Koster	435	6	03/17/95
	AW.	5,622,824	04/22/97	Koster	435	6	02/10/95
	AX.	5,641,959	06/24/97	Holle <i>et al.</i>	250	287	03/21/96
	AY.	5,654,545	08/05/97	Holle <i>et al.</i>	250	287	04/04/95
	AZ.	5,691,141	11/25/97	Koster	435	6	06/06/95

Examiner Signature	Date Considered
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	BA.	5,695,941	12/09/97	Brent <i>et al.</i>	435	6	01/14/97
	BB.	5,741,462	04/21/98	Nova <i>et al.</i>	422	68.1	04/25/95
	BC.	5,742,049	04/21/98	Holle <i>et al.</i>	250	282	03/20/96
	BD.	5,751,629	05/12/98	Nova <i>et al.</i>	365	151	06/07/95
	BE.	5,760,393	06/02/98	Vestal <i>et al.</i>	250	282	10/17/96
	BF.	5,777,325	07/07/98	Weinberger <i>et al.</i>	250	287	05/06/96
	BG.	5,807,525	09/15/98	Allen <i>et al.</i>	422	131	02/29/96
	BH.	5,851,765	12/22/98	Koster	435	6	05/30/95
	BI.	5,872,003	02/16/99	Koster	435	283.1	05/30/95
	BJ.	5,874,214	02/23/99	Nova <i>et al.</i>	435	6	10/03/95
	BK.	5,900,481	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
	BL.	5,925,562	07/20/99	Nova <i>et al.</i>	435	287.1	06/07/95
	BM.	5,928,906	07/27/99	Koster <i>et al.</i>	435	91.2	05/09/96
	BN.	5,955,280	09/21/99	Vidal <i>et al.</i>	435	6	09/04/97
	BO.	5,961,923	10/05/99	Nova <i>et al.</i>	422	68.1	09/30/96
	BP.	5,972,639	10/26/99	Parandoosh	435	29	07/24/97
	BQ.	6,017,496	01/25/00	Nova <i>et al.</i>	422	68.1	09/06/96
	BR.	6,022,688	02/08/00	Jurinke <i>et al.</i>	435	6	05/13/96
	BS.	6,024,925	02/15/00	Little <i>et al.</i>	422	100	01/23/97
	BT.	6,025,129	02/15/00	Nova <i>et al.</i>	435	6	12/05/95
	BU.	6,043,031	03/28/00	Koster <i>et al.</i>	435	6	03/18/96
	BV.	6,074,823	06/13/00	Koster	435	6	11/06/96
	BW.	6,133,436	10/17/00	Koster <i>et al.</i>	536	24.3	09/19/97
	BX.	6,140,053	10/31/00	Koster	435	6	11/25/98
	BY.	6,146,854	11/14/00	Koster <i>et al.</i>	435	91.1	08/31/95
	BZ.	6,194,144	02/27/01	Koster	435	6	03/18/96

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	CA.	6,197,498	03/06/01	Koster	435	5	04/06/99
	CB.	6,207,370	03/27/01	Little <i>et al.</i>	435	6	09/02/97
	CC.	6,221,601	04/24/01	Koster	435	6	11/2/99
	CD.	6,221,605	04/24/01	Koster	435	6	02/15/00
	CE.	6,225,061	05/01/01	Becker <i>et al.</i>	435	6	03/10/99
	CF.	6,225,450	05/01/01	Koster	536	22.1	06/07/95
	CG.	6,235,478	05/22/01	Koster	435	6	04/06/99
	CH.	6,238,871	05/29/01	Koster	435	6	05/08/00
	CI.	6,258,538	07/10/01	Koster <i>et al.</i>	435	6	04/06/99
	CJ.	6,268,131	07/31/01	Kang <i>et al.</i>	435	6	12/15/97
	CK.	6,268,144	07/31/01	Koster	435	6	09/15/99
	CL.	6,274,337	08/14/01	Parce <i>et al.</i>	435	29	03/19/98
	CM.	6,277,573	08/21/01	Koster	435	6	04/06/99
	CN.	6,300,076	10/09/01	Koster	435	6	01/31/00
	CO.	6,303,309	10/16/01	Jurinke <i>et al.</i>	435	6	06/21/99
	CP.	6,322,970	11/27/01	Little <i>et al.</i>	435	6	09/02/98
	CQ.	6,387,628	05/14/02	Little <i>et al.</i>	435	6	09/18/00
	CR.	6,428,955	08/06/02	Koster <i>et al.</i>	435	6	11/06/96
	CS.	6,436,635	08/20/02	Fu <i>et al.</i>	435	6	03/12/96
	CT.	6,455,071	09/24/02	Shchepinov <i>et al.</i>	424	486	08/27/98
	CU.	6,485,913	11/26/02	Becker <i>et al.</i>	435	6	10/02/00
	CV.	6,50,621	12/31/02	Koster	435	6	02/28/01
	CW.	6,654,545	08/05/97	Holle <i>et al.</i>	250	287	04/04/96
	CX.	6,872,574	03/29/05	Cravatt <i>et al.</i>	436	119	04/16/01

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		Applicant Hubert Köster, Ph.D. et al.	
		Filing Date January 16, 2004	Group Art Unit 1639

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	CY.	0 124 561	11/14/84	EP B1				X*
	CZ.	0 124 562	11/14/84	EP B1				X+
	DA.	0 127 857	04/19/01	PCT A1				
	DB.	0 149 634	07/31/85	EP B1				X*
	DC.	01/77684	10/18/01	PCT A2				
	DD.	01/96607	06/13/01	PCT A2				
	DE.	0 285 675	10/12/88	EP A1				X*
	DF.	0 305 929	03/08/89	EP B1				
	DG.	0 353 460	02/07/90	EP A2				
	DH.	0 689 610	01/03/96	EP B1				
	DI.	0 901 531	03/17/99	EP B1				
	DJ.	0 914 471	05/12/99	EP B1				
	DK.	0 937 097	08/25/99	EP B1				
	DL.	00/56446	09/28/00	PCT				
	DM.	00/60361	10/12/00	PCT				
	DN.	01/77668	10/18/01	PCT				
	DO.	02/048403	06/20/02	PCT				
	DP.	03/077851	09/25/03	PCT				
	DQ.	03/092581	11/13/03	PCT				
	DR.	1 164 203	12/19/01	EP A2				
	DS.	1 262 564	12/04/02	EP A2				
	DT.	2004/064972	08/05/04	PCT				
	DU.	6455181	03/02/89	JP A				X*
	DV.	85/00621	02/14/85	PCT				X*
	DW.	85/00816	02/28/85	PCT				X+

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							Yes	No
	DX.	94/16101	07/21/94	PCT				
	DY.	94/21822	09/29/94	PCT				
	DZ.	96/29431	09/26/96	PCT				
	EA.	96/32504	10/17/96	PCT				
	EB.	97/07126	02/27/97	PCT				
	EC.	97/08306	03/06/97	PCT				
	ED.	97/37041	10/09/97	PCT				
	EE.	97/41139	11/06/97	PCT				
	EF.	97/42348	05/09/97	PCT				
	EG.	97/43617	11/20/97	PCT				
	EH.	98/20019	05/14/98	PCT				
	EI.	98/20020	05/14/98	PCT				
	EJ.	98/20166	05/14/98	PCT				
	EK.	98/33808	08/06/98	PCT				
	EL.	99/12040	03/11/99	PCT				
	EM.	99/31278	06/24/99	PCT				
	EN.	99/32618	12/18/98	PCT				
	EO.	99/51773	10/14/99	PCT				
	EP.	99/55718	11/04/99	PCT				
	EQ.	99/57318	11/11/99	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ER.	"IUPAC-IUB Commission on Biochemical Nomenclature A One-Letter Notation for Amino Acid Sequences Tentative Rules," <i>J. Biol. Chem.</i> , 243(13):3557-3559 (1968)

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ES.	"IUPAC-IUB Commission on Biochemical Nomenclature Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids) Revised Recommendations (1971)," <i>Biochem.</i> , 11(5):942-944 (1972)
	ET.	"PAMAM Dendrimers", Available at <a href="http://www.dendritech.com/pamam.htm">http://www.dendritech.com/pamam.htm</a> . (Accessed on 4/25/03)
	EU.	Aaserud <i>et al.</i> , "Distinguishing N- and C-terminus ions for mass spectrometry sequencing of proteins without prior degradation", <i>Rapid Communications in Mass Spectrometry</i> , 9(10):871-876 (1995)
	EV.	Altschul <i>et al.</i> , "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , 215:403-410 (1990)
	EW.	Beck <i>et al.</i> , "Chemiluminescent detection of DNA: application for DNA sequencing and hybridization", <i>Nucl. Acids Res.</i> , 17(13):5115-5123 (1989)
	EX.	Beck, S. and H. Koster, "Perspective: Analytical Biotechnology. Applications of Dioxetane Chemiluminescent Probes to Molecular Biology", <i>Anal. Chem.</i> , 62:2258-2270 (1990), Erratum: <i>Anal. Chem.</i> , 63(8):848 (1991)
	EY.	Berglund <i>et al.</i> , "Investigation of structural analogs of prostaglandin amides for binding to and activation of CB1 and CB2 cannabinoid receptors in rat brain and human tonsils", <i>Adv Exp Med Biol.</i> , 469:527-533 (1999)
	EZ.	Berglund <i>et al.</i> , "Structural requirements for arachidonylethanolamide interaction with CB1 and CB2 cannabinoid receptors: pharmacology of the carbonyl and ethanolamide group", <i>Prostaglandins Leukot Essent Fatty Acids</i> , 59(2):111-118 (1998)
	FA.	Biernat, <i>et al.</i> "New bacteriophage vectors for the large scale production of single stranded insert DNA", <i>Journal of Biochemical and Biophysical Methods</i> , 19(2-3):155-167 (1989)
	FB.	Boring <i>et al.</i> , "Cerebrodiene, arachidonyl-ethanolamide, and hybrid structures: potential for interaction with brain cannabinoid receptors", <i>Prostaglandins Leukot Essent Fatty Acids</i> , 55(3):207-210 (1996)
	FC.	Boring <i>et al.</i> , "Trifunctional agents as a design strategy for tailoring ligand properties: irreversible inhibitors of A1 adenosine receptors", <i>Bioconjug Chem.</i> , 2(2):77-88 (Mar-Apr 1991)
	FD.	Braun <i>et al.</i> , "Detecting CFTR gene mutations by using primer oligo base extension and mass spectrometry", <i>Clinical Chemistry</i> , 43(7): 1151-1158 (1997)
	FE.	Braun <i>et al.</i> , "Improved Analysis of Microsatellites Using Mass Spectrometry", <i>Genomics</i> , 46:18-23 (1997)

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		Filing Date January 16, 2004	Group Art Unit 1639

Other Documents (include Author, Title, Date, and Place of Publication)		
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	FF.	Buetow <i>et al.</i> , "High-throughput development and characterization of a genomewide collection of gene-based single nucleotide polymorphism markers by chip-based matrix-assisted laser desorption/ionization time-of-flight mass spectrometry", <i>Proc. Natl. Acad. Sci. USA</i> , 98(2):581-584 (2001)
	FG.	Cantor <i>et al.</i> , "Massive attack on high-throughput biology", <i>Nat. Gen.</i> , 20:5-6 (1998)
	FH.	Carrillo <i>et al.</i> , "The Multiple Sequence Alignment Problem in Biology", <i>SIAM J. Appl. Math.</i> , 48(5):1073-1082 (1988)
	FI.	Chiu <i>et al.</i> , "Mass spectrometry of single-stranded restriction fragments captured by an undigested complementary sequence" <i>Nucl. Acids Res.</i> , 28(8): e31(4 pages) (2000)
	FJ.	Chorush <i>et al.</i> , "Surface-induced dissociation of multiply-protonated proteins", <i>Analytical Chemistry</i> , 67(6):1042-1046 (1995)
	FK.	Coull <i>et al.</i> , "Functionalized Membrane Supports for Covalent Protein Microsequence Analysis", <i>Anal. Biochem.</i> , 194:110-120 (1991)
	FL.	Crozet <i>et al.</i> , "Synthesis and characterization of cyclic pseudopeptide libraries containing thiomethylene and thiomethylene-sulfoxide amide bond surrogates", <i>Mol Divers.</i> , 3(4):261-276 (1998)
	FM.	Derwent# 003969477, WPI Acc. No.: 1984-115021/198419 for European Patent Application EP 0124561, "Solid phase oligonucleoside phosphonate prodn. - using nucleoside monohalo phosphinite as reactant."
	FN.	Derwent# 004205815, WPI Acc. No.: 1985-032695/198506 for European Patent Application EP 0149634 and PCT Patent Application WO 8500621, "New oligonucleotide linker sequences - for cohesive end ligation of DNA fragments."
	FO.	Derwent# 007653017, WPI Acc. No: 1988-286949/198841 for European Patent Application EP 0285675 and Japanese Patent Application JP 1055181 (cited as JP 64-55181), "New synthetic DNA cassettes - used to code nutritionally useful artificial proteins."
	FP.	Devereux <i>et al.</i> , "A comprehensive set of sequence analysis programs for the VAX", <i>Nucl. Acids Res.</i> , 12(1):387-95 (1984)
	FQ.	Fu <i>et al.</i> , "A DNA sequencing strategy that requires only five bases fo known terminal sequence for priming", <i>Proc. Natl. Acad. Sci. USA</i> , 92(22): 10162-10166 (1995)
	FR.	Fu <i>et al.</i> , "Efficient preparation of short DNA sequence ladders potentially suitable for MALDI-TOF DNA sequencing", <i>Genetic Analysis</i> , 12(3-4):137-142 (1996)
	FS.	Fu <i>et al.</i> , "Sequencing double-stranded DNA by strand displacement", <i>Nuc. Acids Res.</i> , 25(3): 677-679 (1997)

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		Applicant Hubert Köster, Ph.D. et al.	
		Filing Date January 16, 2004	Group Art Unit 1639

Other Documents (include Author, Title, Date, and Place of Publication)		
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	FT.	Fu <i>et al.</i> , "Sequencing exons 5 to 8 of the <i>p53</i> gene by MALDI-TOF mass spectrometry", <i>Nature Biotechnology</i> , 16(4): 381-384 (1998)
	FU.	Gribskov <i>et al.</i> , "Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins", <i>Nucl. Acids Res.</i> , 14(16):6745-63 (1986)
	FV.	Heaton <i>et al.</i> , "Estimation of DNA sequence diversity in bovine cytokine genes", <i>Mammalian Genome</i> , 12(1):32-37 (2001)
	FW.	Herman, B., "Chapter 8. Resonance Energy Transfer Microscopy", <i>Meth. Cell Biol.</i> , 30:219-243 (1989)
	FX.	Hermes <i>et al.</i> , "A reliable method for random mutagenesis: the generation of mutant libraries using spiked oligodeoxiribonucleotide primers", <i>Gene</i> , 84(1):143-151 (1990)
	FY.	Hessler <i>et al.</i> , "Molecular Engineering in Nanotechnology IV: Atomic Force Microscopy Characterization of Dendrimer Drug Delivery Agents", Ninth Foresight Conference on Molecular Nanotechnology (Abstract) ( <a href="http://www.foresight.org/Conferences/MNT9/Abstracts/Hessler/index.html">http://www.foresight.org/Conferences/MNT9/Abstracts/Hessler/index.html</a> (accessed on 12/6/2002))
	FZ.	Higgins <i>et al.</i> , "Competitive oligonucleotide single-base extension combined with mass spectrometric detection for mutation screening", <i>Biotechniques</i> , 23(4): 710-714 (1997)
	GA.	Juhasz <i>et al.</i> , "Applications of Delayed Extraction Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry to Oligonucleotide Analysis", <i>Anal. Chem.</i> , 68:941-946 (1996)
	GB.	Jurinke <i>et al.</i> , "Analysis of ligase chain reaction products via matrix-assisted laser desorption/ionization time-of-flight-mass spectrometry", <i>Anal. Biochemistry</i> , 237(2):174-181 (1996)
	GC.	Jurinke <i>et al.</i> , "Application of nested PCR and mass spectrometry for DNA-based virus detection: HBV-DNA detected in the majority of isolated anti-HBc positive sera", <i>Genetic Analysis</i> , 14(3): 97-102 (1998)
	GD.	Jurinke <i>et al.</i> , "Automated Genotyping Using the DNA MassArray™ Technology", <i>Methods in Molecular Biology</i> , 187:179-192 (2002)
	GE.	Jurinke <i>et al.</i> , "Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI-TOF mass spectrometry", <i>Genetic Analysis</i> , 13(3):67-71 (1996)
	GF.	Jurinke <i>et al.</i> , "Recovery of nucleic acids from immobilized biotin-streptavidin complexes using ammonium hydroxide and applications in MALDI-TOF mass spectrometry", <i>Anal. Chem.</i> , 69(5): 904-910 (1997)
	GG.	Jurinke <i>et al.</i> , "The Use of MassARRAY Technology for High Throughput Genotyping", <i>Advances in Biochemical Engineering/Biotechnology</i> , 77:57-74 (2002)

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	GH.	Köster <i>et al.</i> , "A strategy for rapid and efficient DNA sequencing by mass spectrometry", <i>Nature Biotechnology</i> , 14(9): 1123-1128 (1996)
	GI.	Köster <i>et al.</i> , "Oligonucleotide synthesis and multiplex DNA sequencing using chemiluminescent detection", <i>Nucleic Acids Res.</i> , Symposium Series 24:318-321 (1991)
	GJ.	Kwon <i>et al.</i> , "DNA sequencing and genotyping by transcriptional synthesis of chain-terminated RNA ladders and MALDI-TOF mass spectrometry", <i>Nucleic Acids Res.</i> , 29(3): e11 (2001)
	GK.	Leanna, C. and M. Hannink, "The reverse two-hybrid system: a genetic scheme for selection against specific protein/protein interactions", <i>Nuc. Acids Res.</i> , 24(17):3341-3347 (1996)
	GL.	Li <i>et al.</i> , "High resolution MALDI fourier transform mass spectrometry of oligonucleotides", <i>Analytical Chemistry</i> , 68(13): 2090-2096 (1996)
	GM.	Little <i>et al.</i> , "Detection of RET proto-oncogene codon 634 mutations using mass spectrometry", <i>J Mol Med.</i> , 75(10): 745-750 (1997)
	GN.	Little <i>et al.</i> , "Identification of apolipoprotein E polymorphisms using temperature cycled primer oligo base extension and mass spectrometry", <i>Eur J Clin Chem Clin Biochem</i> , 35(7): 545-548 (1997)
	GO.	Little <i>et al.</i> , "Infrared multiphoton dissociation of large multiply charged ions for biomolecule sequencing", <i>Analytical Chemistry</i> , 66(18):2809-2815 (1994)
	GP.	Little <i>et al.</i> , "Mass spectrometry from miniaturized arrays for full comparative DNA analysis" <i>Nature Medicine</i> , 3(12): 1413-1416 (1997)
	GQ.	Little <i>et al.</i> , "Verification of 50- to 100-mer DNA and RNA sequences with high-resolution mass spectrometry", <i>Proc.Natl.Acad.Sci.USA</i> , 92(6):2318-2322 (1995)
	GR.	Manning <i>et al.</i> , "Facile, efficient conjugation of a trifunctional lanthanide chelate to a peripheral benzodiazepine receptor ligand", <i>Org Lett</i> , 4(7):1075-1078 (2002)
	GS.	Müller <i>et al.</i> , "Retention of imprinting of the human apoptosis-related gene TSSC3 in human brain tumors", <i>Human Molecular Genetics</i> , 9(5): 757-763 (2000)
	GT.	Musiani <i>et al.</i> , "Chemiluminescence: a sensitive detection system in in situ hybridization", <i>Histol. Histopathol.</i> , 13:243-248 (1998)
	GU.	Needleman <i>et al.</i> , "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", <i>J. Mol. Biol.</i> , 48:443-453 (1970)
	GV.	O'Connor <i>et al.</i> , "Isotopic assignment in large-molecule mass spectra by fragmentation of a selected isotopic peak", <i>Analytical Chemistry</i> , 68(3): 542-545 (1996)

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	GW.	O'Day <i>et al.</i> , " <i>Aristostomias Scintillans</i> (Malacosteidae): A deep-sea fish with visual pigments apparently adapted to its own bioluminescence", <i>Vision Res.</i> , 14:545-550 (1974)
	GX.	O'Donnell-Maloney <i>et al.</i> , "Microfabrication and array technologies for DNA sequencing and diagnostics", <i>Gen. Anal. Biomol. Engin.</i> , 13:151-157 (1996)
	GY.	Pappin <i>et al.</i> , "Solid-phase sequence analysis of proteins electroblotted or spotted onto polyvinylidene difluoride membranes", <i>Analytical Biochemistry</i> , 187(1):10-19 (1990)
	GZ.	Pearson <i>et al.</i> , "Improved tools for biological sequence comparison", <i>Proc. Natl. Acad. Sci. USA</i> , 85:2444-2448 (1988)
	HA.	Qu <i>et al.</i> , "Synthesis, characterization, and cytotoxicity of trifunctional dinuclear platinum complexes: comparison of effects of geometry and polyfunctionality on biological activity", <i>J Med Chem</i> , 43(16):3189-3192 (2000)
	HB.	Robbins <i>et al.</i> , "Forskolin Carbamates: Binding and Activation Studies with Type I Adenylyl Cyclase", <i>J Med Chem</i> , 39(14):2745-2752 (1996)
	HC.	Sapan <i>et al.</i> , "Colorimetric protein assay techniques", <i>Biotechnol. Appl. Biochem.</i> , 29:99-108 (1999)
	HD.	Schwartz <i>et al.</i> , "Matrices for Detecting Distant Relationships", Chapter 23 of: Atlas of Protein Sequence and Structure, Dayhoff, M.O., Ed., National Biomedical Research Foundation, pp. 353-358 (1978)
	HE.	Shchepinov <i>et al.</i> , "Matrix-induced fragmentation of P3'- N5' phosphoramidate-containing DNA: high-throughput MALDI-TOF analysis of genomic sequence polymorphisms", <i>Nucleic Acids Research</i> , 29(18):3864-3872 (2001)
	HF.	Shchepinov <i>et al.</i> , "Oligonucleotide dendrimers: stable nano-structures", <i>Nucleic Acids Res.</i> , 27(15):3035-3041 (1999)
	HG.	Shchepinov <i>et al.</i> , "Oligonucleotide dendrimers: synthesis and use as polylabelled DNA probes", <i>Nucleic Acids Res.</i> , 25(22):4447-4454 (1997)
	HH.	Shchepinov <i>et al.</i> , "Rapid Detection of Point Mutations with Biotinylated Selectively Cleavable Synthetic Oligonucleotides", <i>Russian Journal of Bioorganic Chemistry</i> , 21(1):68-69 (1995) Translated from <i>Bioorganicheskaya Khimiya</i> , 21(1):77-79 (1995)
	HI.	Shchepinov <i>et al.</i> , "Specifically Cleavable Oligodeoxyribonucleotides for Reversible Immobilization of DNA", <i>Russian Journal of Bioorganic Chemistry</i> , 20(8-9):520-528 (1994) Translated from <i>Bioorganicheskaya Khimiya</i> , 20(8-9):955-966 (1994)
	HJ.	Shchepinov <i>et al.</i> , "Steric factors influencing hybridisation of nucleic acids to oligonucleotide arrays", <i>Nucleic Acids Res.</i> , 25(6):1155-1161 (1997)

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	HK.	Shchepinov <i>et al.</i> , "Trityl mass-tags for encoding in combinatorial oligonucleotide synthesis", <i>Nucleic Acids Symp Ser.</i> , 42:107-108 (1999)
	HL.	Shchepinov, M.S. and V.A. Korshun, "Design of multidye systems for FRET-based applications", <i>Nucleosides Nucleotides Nucleic Acids</i> , 20(4-7):369-374 (2001)
	HM.	Shilo <i>et al.</i> , "DNA sequences homologous to vertebrate oncogenes are conserved in <i>Drosophila melanogaster</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 78(11):6789-6792 (1981)
	HN.	Siegert <i>et al.</i> , "Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the detection of polymerase chain reaction products containing 7-deazapurine moieties", <i>Anal Biochem.</i> , 243(1):55-65 (1996)
	HO.	Sinha <i>et al.</i> , "Polymer support oligonucleotide synthesis XVIII: use of beta-cyanoethyl-N, N-dialkylamino-/N-morpholino phosphoramidite of deoxynucleosides for the synthesis of DNA fragments simplifying deprotection and isolation of the final product", <i>Nucleic Acids Res.</i> , 12(11):4539-4557 (1984)
	HP.	Sittampalam <i>et al.</i> , "High-Throughput Screening: Advances in Assay Technologies", <i>Curr. Opin. Chem. Biol.</i> , 1(3):384-391 (1997)
	HQ.	Smith <i>et al.</i> , "Comparison of Biosequences", <i>Adv. Applied Mathem.</i> , 2:482-489 (1981)
	HR.	Southern <i>et al.</i> , "Molecular interactions on microarrays", <i>Nat Genet.</i> , 21(1 Suppl):5-9 (1999)
	HS.	Stahl <i>et al.</i> , "Solid Phase DNA Sequencing Using the Biotin-Avidin System", <i>Nucleic Acids Res.</i> , 16(7):3025-3038 (1988)
	HT.	Tang <i>et al.</i> , "Chip-based genotyping by mass spectrometry", <i>Proc. Natl. Acad. Sci. USA</i> , 96(18):10016-10020 (1999)
	HU.	Tang <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes", <i>Nucleic Acids Res.</i> , 23(16): 3126-3131 (1995)
	HV.	Turro, N.J., (Ed.), <u>Modern Molecular Photochemistry</u> , Menlo Park, California: The Benjamin/Cummings Publishing Co., Inc., pp. 297-361 (1978)
	HW.	Valaskovic <i>et al.</i> , "Attomole-sensitivity electrospray source for large-molecule mass spectrometry", <i>Analytical Chemistry</i> , 67(20): 3802-3805 (1995)
	HX.	van den Boom <i>et al.</i> , "Combined amplification and sequencing in a single reaction using two DNA polymerases with differential incorporation rates for dideoxynucleotides", <i>Journal of Biochemical and Biophysical Methods</i> , 35(2): 69-79 (1997)
	HY.	van den Boom <i>et al.</i> , "Forward and Reverse DNA Sequencing in a Single Reaction", <i>Analytical Biochemistry</i> , 256(1): 127-129 (1998)

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	HZ.	Watson <i>et al.</i> , Eds., <u>Molecular Biology of the Gene</u> , Volume I, 4th ed., Menlo Park, California: The Benjamin /Cummings Publishing Company, Inc., p.224 (1987)
	IA.	Weiler <i>et al.</i> , "Hybridisation based DNA screening on peptide nucleic acid (PNA) oligomer arrays", <i>Nucliec Acids Res.</i> , 25(14):2792-2799 (1997)
	IB.	Wood <i>et al.</i> , "Direct sequence data from heterogeneous creatine kinase (43 kDa) by high-resolution tandem mass spectrometry", <i>Biochemistry</i> 34(50):16251-16254 (1995)

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